

Amendments to the Claims

1-36 (Cancelled).

- 37) (Currently amended) A method of making a hybrid *Lycopersicon* plant expressing flavonol in the peel and flesh of the fruit of said plant by crossing a wild *Lycopersicon* species that expresses *CHI* in the peel and that expresses genes of the flavonol biosynthetic pathway in the flesh with a *L. esculentum* plant to produce said hybrid plant, wherein said genes of the flavonol biosynthetic pathway comprise *CHS*, *CHI*, *F3H* and *FLS*.
- 38) (Previously presented) The method of making a hybrid *Lycopersicon* plant according to claim 37 further comprising the step of screening *Lycopersicon* accessions for expression of *CHI* in the peel and/or for expression of one or more of the genes of the flavonol biosynthetic pathway in the flesh.
- 39) (Previously presented) The method of making a hybrid *Lycopersicon* plant according to claim 38 and, wherein said *Lycopersicon* species selected for crossing with a *L. esculentum* plant are *L. chilense* or *L. pennellii*, or any other wild tomato species that expresses genes of the flavonol biosynthetic pathway in the flesh and *CHI* in the peel of said fruit.
- 40) (Previously presented) The method of making a hybrid *Lycopersicon* plant according to claim 39, wherein the accessions selected for crossing are LA1963, LA2884, and LA1926.
- 41) (Previously presented) A hybrid *Lycopersicon* plant produced by the method of claim 37.
- 42) (Previously presented) A hybrid *Lycopersicon* plant produced by the method of claim 40.
- 43) (Previously presented) A hybrid *Lycopersicon* plant produced by the method of claim 40, wherein the accession chosen for crossing is LA1926.
- 44) (Withdrawn) A hybrid *Lycopersicon* plant, wherein the flavonol content in the fruit flesh of said plant is greater than 0.5 µg/mgdwt.
- 45) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.0 µg/mgdwt.

- 46) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than 1.5 µg/mgdwt.
- 47) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in said fruit flesh is greater than approximately 2 µg/mgdwt.
- 48) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein the flavonol content in the peel of the fruit is at least approximately 5 µg/mgdwt.
- 49) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 10 µg/mgdwt.
- 50) (Withdrawn) The hybrid *Lycopersicon* plant according to claim 44, wherein said flavonol content in the peel of the fruit is at least approximately 17 µg/mgdwt.
- 51) (Withdrawn) A seed of said *Lycopersicon* plant of claim 44.
- 52) (Withdrawn) A fruit of said *Lycopersicon* plant of claim 44.
- 53) (Withdrawn) A *Lycopersicon* plant, or parts thereof, produced by growing the seed of claim 51.